

FIGURE 1

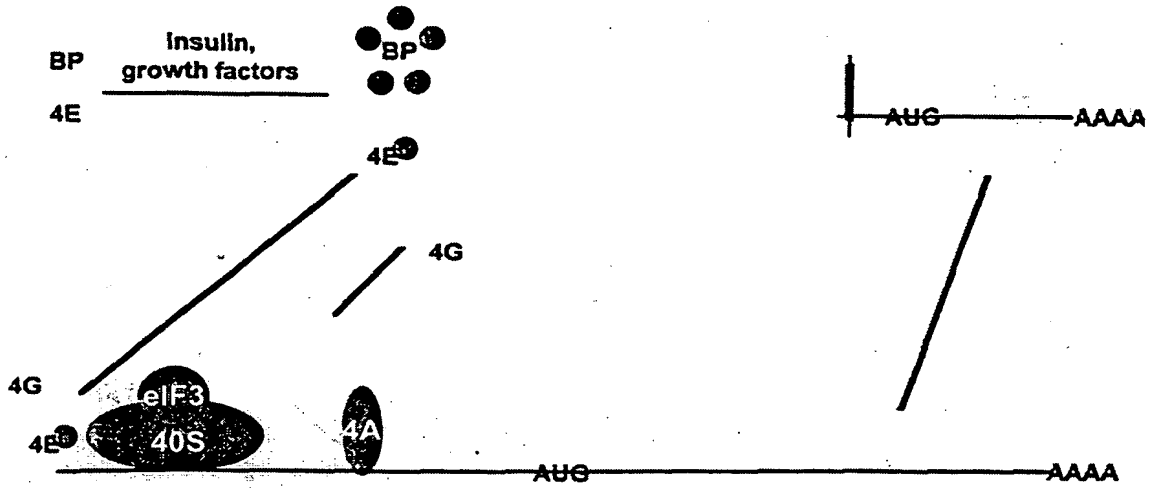
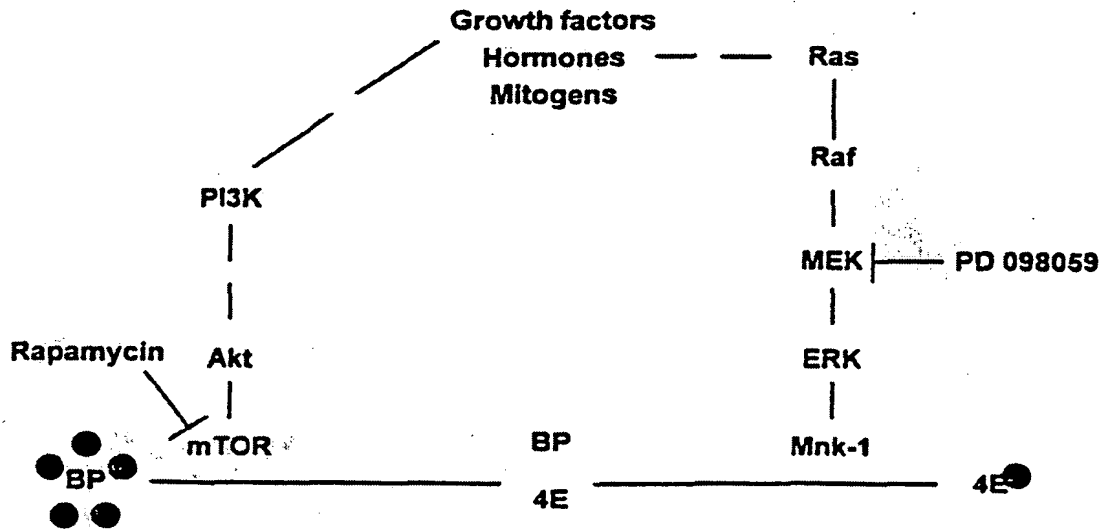


FIGURE 2



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FIGURE 3

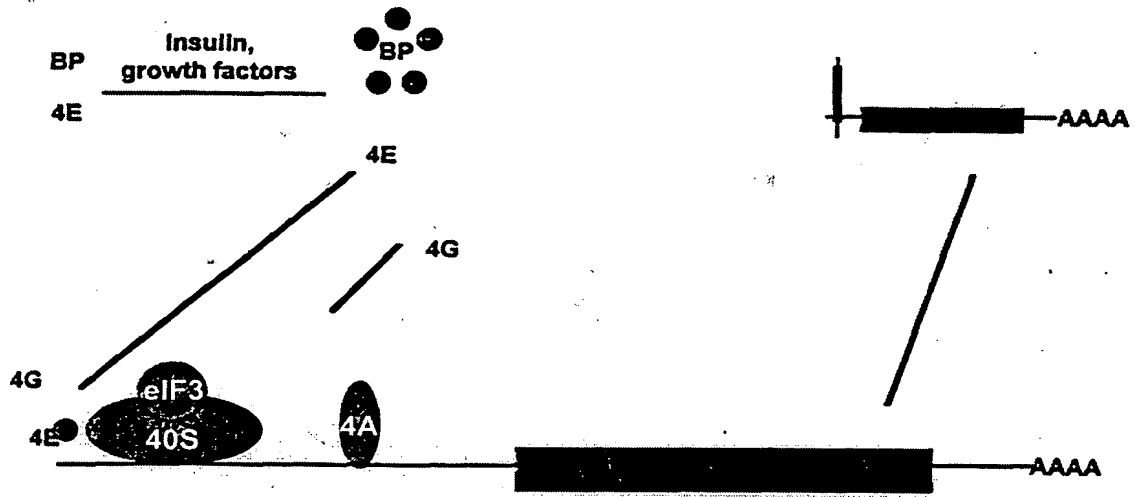
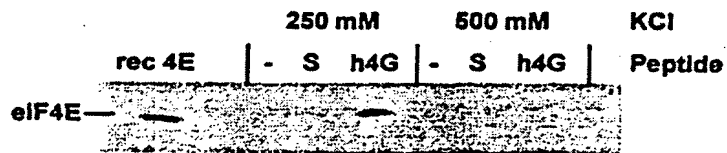


FIGURE 4



h4g human eIF4G Bβ KKRYDREFLLGFAARQIKIWFQNRRMKWKK

S scrambled eIF4G Bβ FDLKFALGRYRAEKRQIKIWFQNRRMKWKK

- no peptide

rec 4E recombinant human eIF4E

FIGURE 5

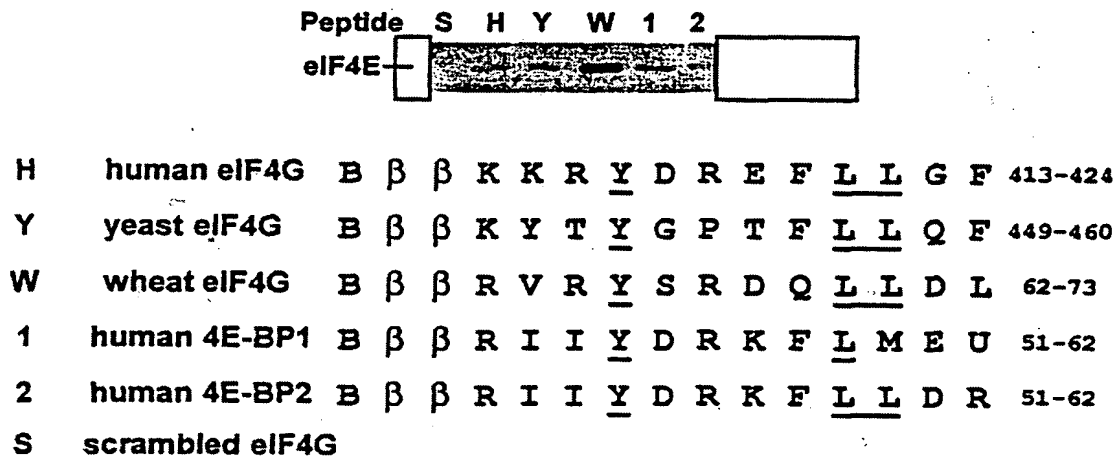
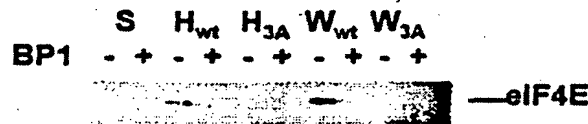


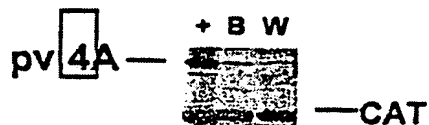
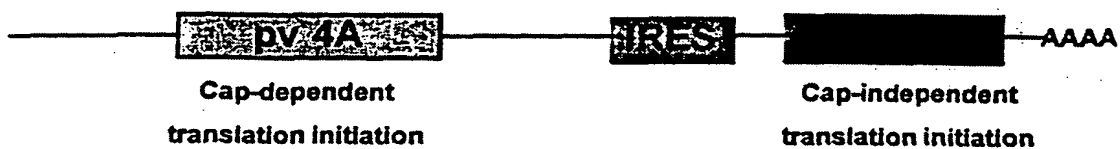
FIGURE 6



4G Peptide			Sequence														
H <sub>wt</sub>	hu 4G <sub>(413-424)</sub>		K	K	R	<u>Y</u>	D	R	E	F	<u>L</u>	<u>L</u>	G	F	A	A	
H <sub>3A</sub>	hu 4G <sub>(413-424)</sub> YALALA		K	K	R	A	D	R	E	F	A	A	G	F	A	A	
W <sub>wt</sub>	wh 4G <sub>(62-73)</sub>		R	V	R	<u>Y</u>	S	R	D	Q	<u>L</u>	<u>L</u>	D	L	A	A	
W <sub>3A</sub>	wh 4G <sub>(62-73)</sub> YALALA		R	V	R	A	S	R	D	Q	A	A	D	L	A	A	
S	scrambled hu 4G		F	D	L	K	F	A	L	G	R	Y	R	A	E	K	

all peptides biotinylated and linked to Penetratin™

FIGURE 7



+ Positive control  
 B human 4E-BP1  
 W wheat eIF4G<sub>(62-73)</sub>

FIGURE 8

Peptide	Concentration			
	3 $\mu$ M	6 $\mu$ M	9 $\mu$ M	12 $\mu$ M
hu 4G <sub>(413-424)</sub>	+	++	+++	+++
hu 4G <sub>(413-424)</sub> Y416AL421AL422A	-	-	-	-
wh 4G <sub>(62-73)</sub>	-/+	+	++	+++
wh 4G <sub>(62-73)</sub> Y655AL70AL71A	-	-	-	-
scrambled hu 4G	-	-	-	-

MRC5 cells, 72 h serum-free growth, all peptides biotinylated and linked to Penetratin™

FIGURE 9

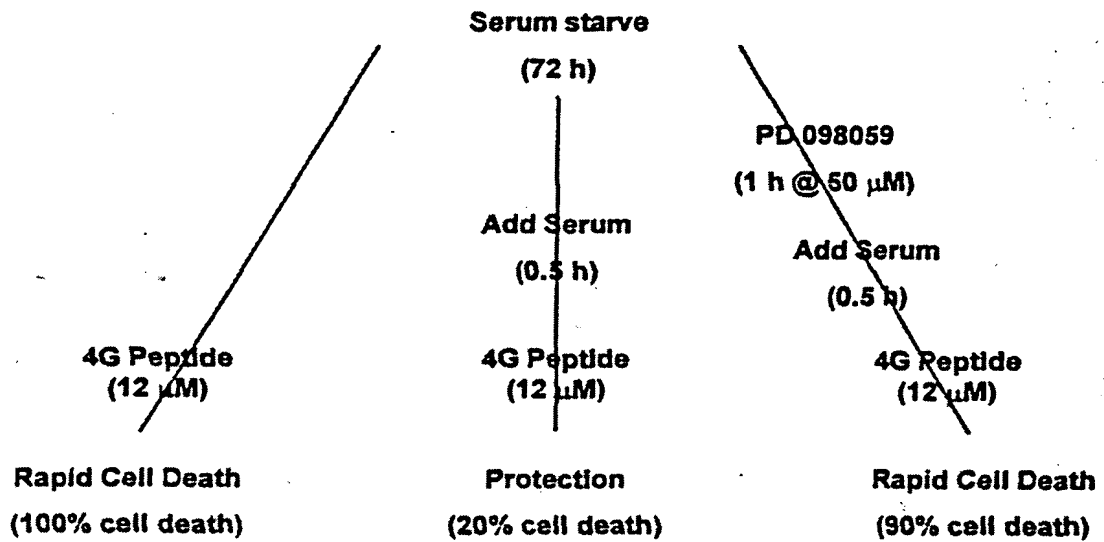
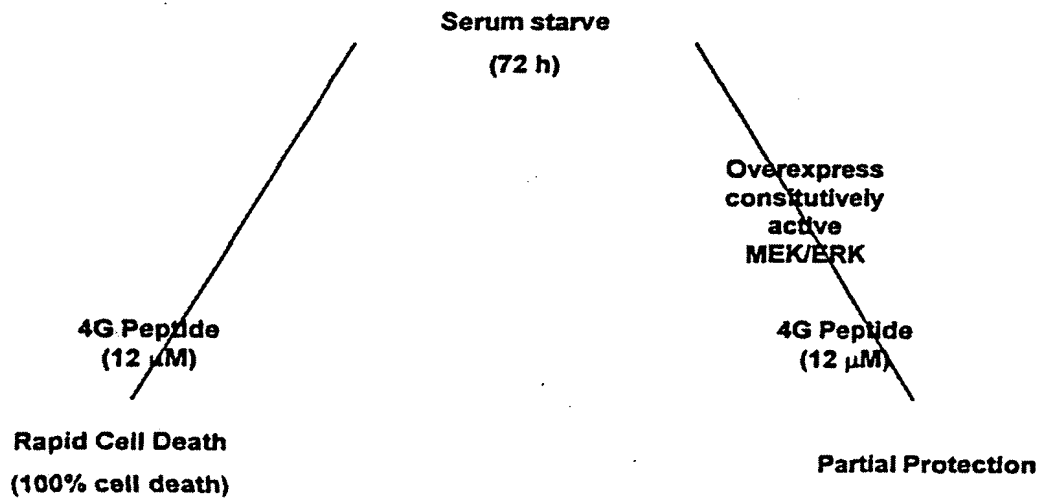


FIGURE 10



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FIGURE 11

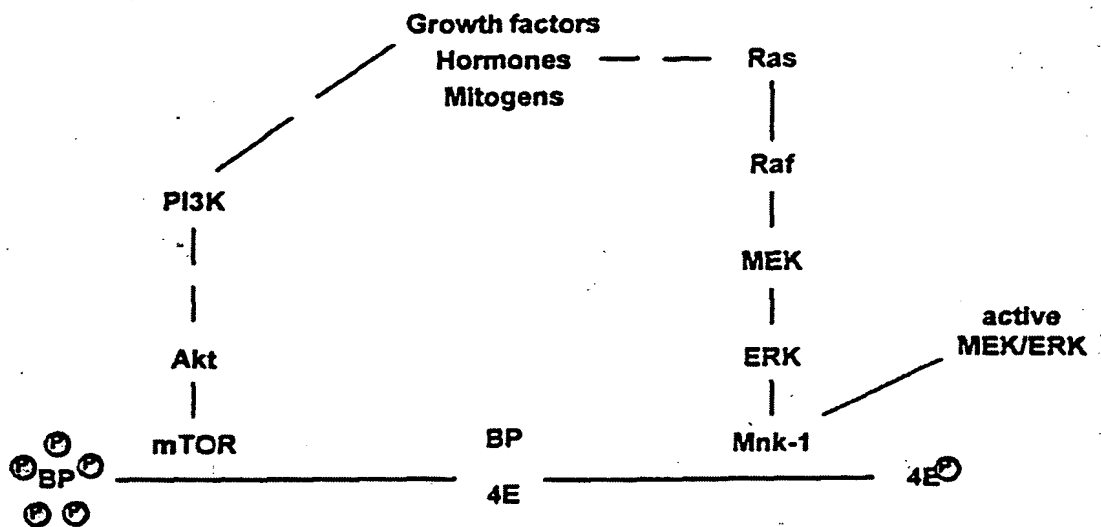


FIGURE 12

(a)

Hu 4G	Human eIF4G Peptide (569-580)Wild Type	KKRYDREFLLGF
Hu 4G YLL-AAA	Human eIF4G Peptide (569-580)Y572A L577A L578A	KKRADREFAAGF
Hu 4G Y-A	Human eIF4G Peptide (569-580)Y572A	KKRADREFLLGF
Hu 4G L-A	Human eIF4G Peptide (569-580)L577A	KKRYDREFALGF
W4G	Wheat eIF4G Peptide (62-73)Wild Type	RVRYSRDQLLDL
W4G YLL-AAA	Wheat eIF4G Peptide (62-73)Y65A, L70A, L71A	RVRASRDQAADL
BP2	Human 4E-BP2 Peptide (51-62)Wild Type	RIIYDRKFLLDL
BP2 YLL-AAA	Human 4E-BP2 Peptide (51-62)Y54A, L59A, L60A	RIIADRKFAADR
BP1	Human 4E-BP1 Peptide (51-62)Wild Type	RIIYDRKFLMEU
BP1 YLM-AAA	Human 4E-BP1 Peptide (51-62)Y54A, L59A, M60A	RIIADRKFAAEU

(b)

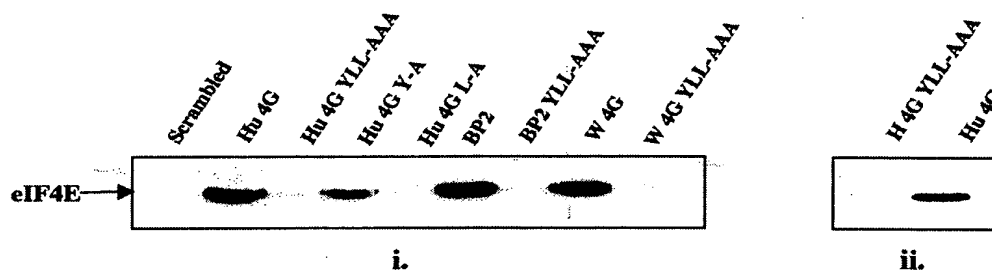
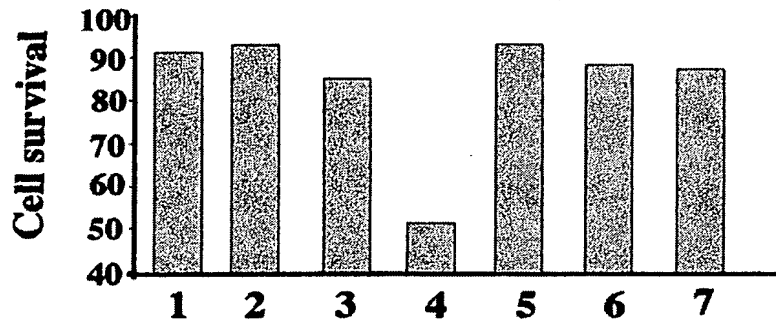
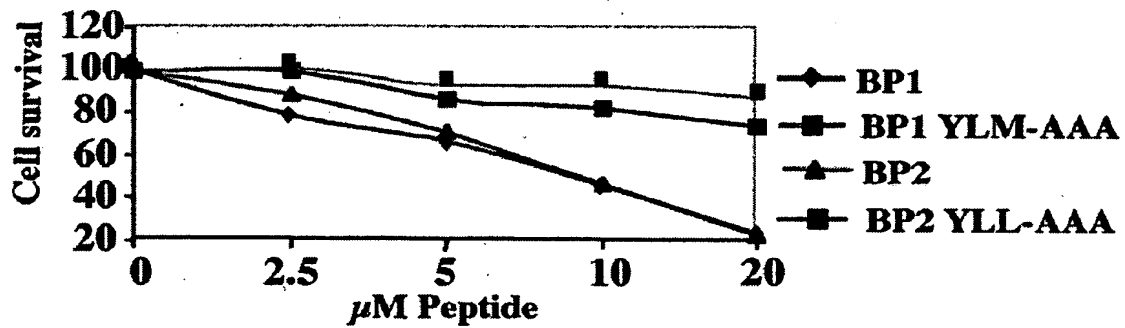


FIGURE 13

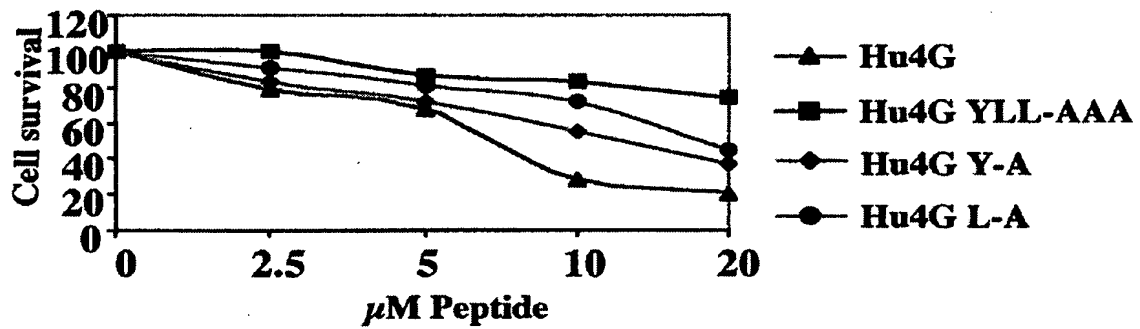
(a)



(b)



(c)



(d)

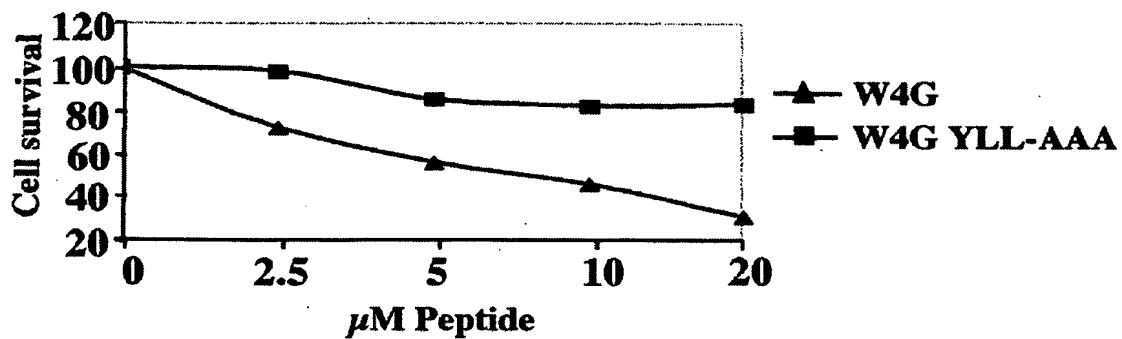


FIGURE 14

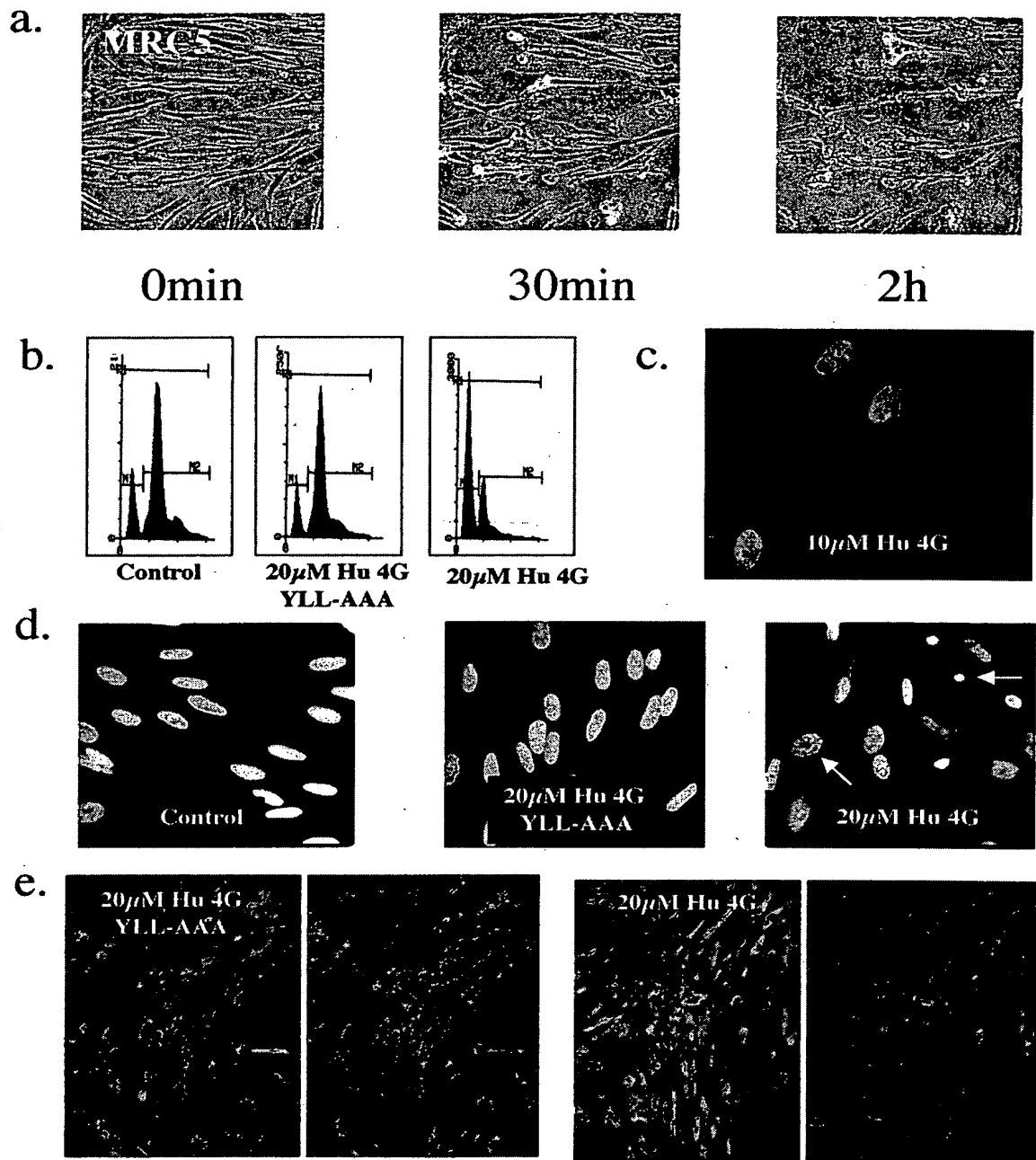


FIGURE 15

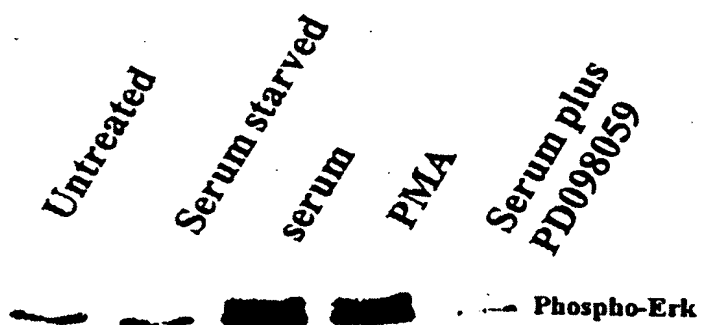


FIGURE 16

(a)

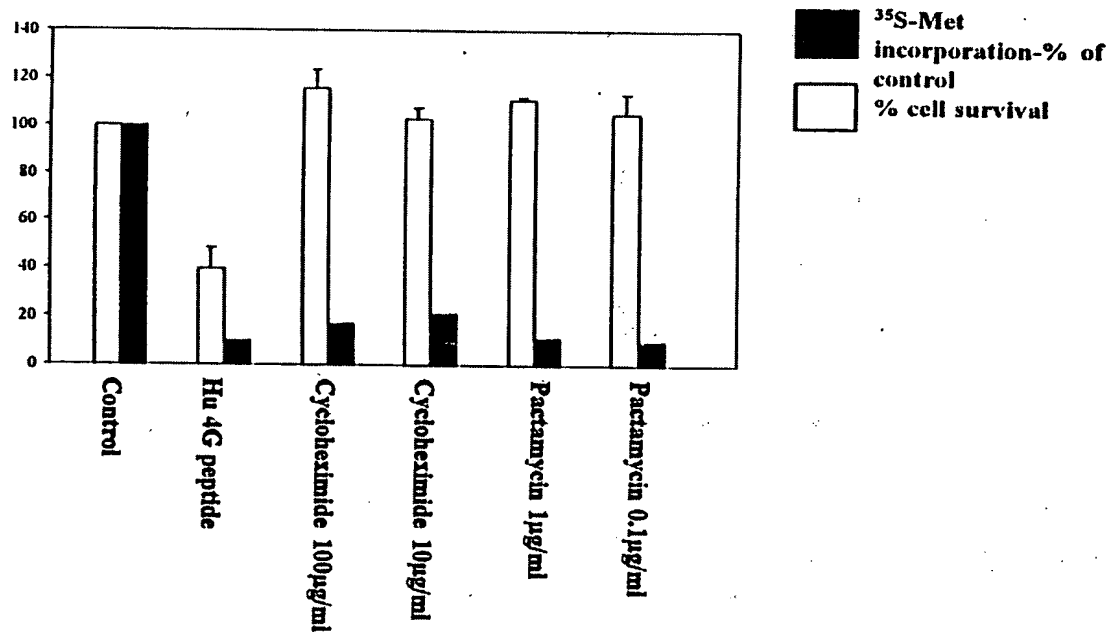
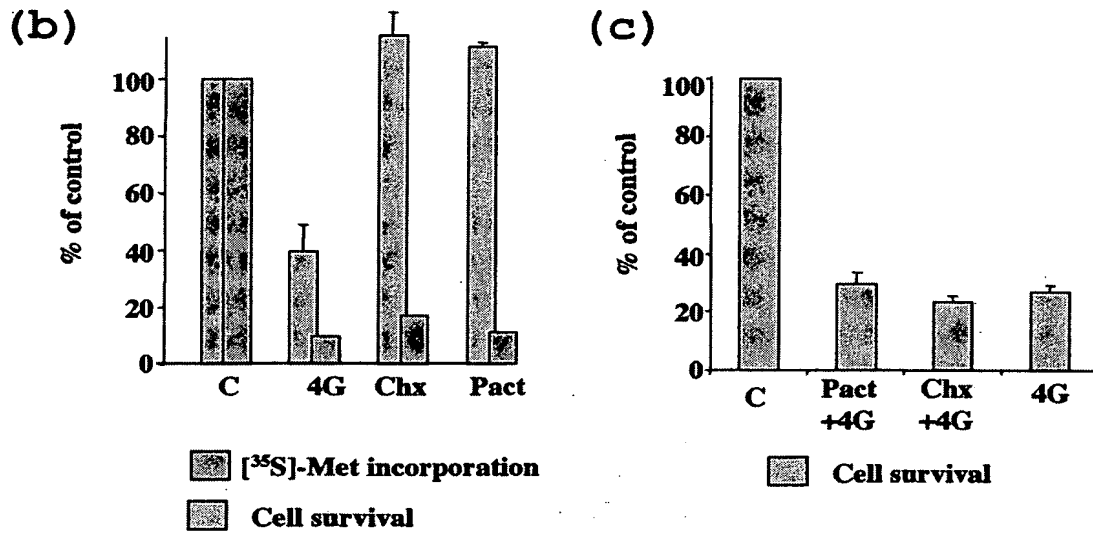


FIGURE 16(cont.)



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